El-Moasser Final Examinations

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(A) Choose	Corre			
innut ene	correct answer : ergy when using the	e hair dryer is the	energy.	
1. The III	h potential	c. kinetic	d. thermal	
FOWS II	arough turbines in	uams to generate	elicidy.	
e Fossil fuels ne	eed to be	formed under the	Earth's surface.	
a five years		b. ten years		
drads of	fyears	d. millions of	years	
4. The steps of fo	orming fossil fuel,		of the remains of the liv	ing
a. decaying	b. cooling	c. burying	d. heating	
(R) Give a reason	for the following	g :		
Iron inside rocks	may rust.			
11000				
***************************************		***************************************	***************************************	
(A) Complete the	following senter	nces :		
			s to make flour hundreds of	
		sed to dring drain:	s to make moul munureus of	
			s to make flour hundreds of	
years ago, but i	now we use them	to generate		
years ago, but in 2. In any energy community 3. Wood and	now we use them hain, some of the are examples	to generatee e energy is lost in		
years ago, but in any energy of the second s	now we use them thain, some of the are examples still fuel.	to generatee e energy is lost in s of biofuel, while	the form of are	
years ago, but it 2. In any energy of 3. Wood and examples of fos 4. When you ride a	now we use them thain, some of the main, some of the main, are examples still fuel.	to generate e energy is lost in s of biofuel, while energy store	the form of are and in your body is converted	
years ago, but in 2. In any energy of 3. Wood and	now we use them thain, some of the main, some of the main, are examples sail fuel. The bicycle, the main are ergy which cause	to generate e energy is lost in s of biofuel, while energy store	the form of are and in your body is converted	
years ago, but in the second s	hain, some of the main, some of the main, some of the main, are examples sil fuel. a bicycle, theergy which cause if?	e energy is lost in s of biofuel, while energy store the bicycle to me	the form of are and are ed in your body is converted ove.	
years ago, but in the second s	hain, some of the main, some of the main, some of the main, are examples sil fuel. a bicycle, theergy which cause if?	e energy is lost in s of biofuel, while energy store the bicycle to me	the form of are and in your body is converted	
years ago, but in the second s	hain, some of the main, some of the main, some of the main, are examples sil fuel. a bicycle, theergy which cause if?	e energy is lost in s of biofuel, while energy store the bicycle to me	the form of are and are ed in your body is converted ove.	
years ago, but in the second s	hain, some of the main, some of the main, some of the main, are examples sil fuel. a bicycle, theergy which cause if?	e energy is lost in s of biofuel, while energy store the bicycle to me	the form of are and are ed in your body is converted ove.	
years ago, but in the second s	hain, some of the hain, some of the hain, some of the hain, are examples sil fuel. a bicycle, theergy which cause if? sediments of a manner.	e energy is lost in s of biofuel, while energy store the bicycle to me	the form of are and are ed in your body is converted ove.	
years ago, but it 2. In any energy of 3. Wood and examples of fos 4. When you ride a into ene (B) What happens A river erodes the s	chain, some of the chain, some of the chain, some of the chain, are examples still fuel. The bicycle, the chain ergy which cause if? The sediments of a manner of a manner of a manner of a manner of the chain ergo.	e energy is lost in a control of biofuel, while the bicycle to more the bicycle to more allowed and the bicycle to the bicycle to more allowed and the bicycle to the bicycle	the form of are and are ed in your body is converted ove. ong period of time.	
years ago, but it 2. In any energy of 3. Wood and examples of fos 4. When you ride a into	chain, some of the chain, some of the chain, some of the chain, are examples still fuel. The bicycle, the ergy which cause if? The sediments of a manner of a river travels	e energy is lost in a control of biofuel, while the bicycle to more the bicycle to more allowed and the bicycle to the bicycle to more allowed and the bicycle to the bicycle	the form of are and are ed in your body is converted ove. ong period of time.	1
years ago, but it 2. In any energy of 3. Wood and examples of fos 4. When you ride a into	chain, some of the chain, some of the chain, some of the chain, are examples sail fuel. The bicycle, the	e energy is lost in a control of biofuel, while the bicycle to more the bicycle to more allowed and the bicycle to the bicycle to more allowed and the bicycle to the bicycle	the form of are and are ed in your body is converted ove. ong period of time.	1

(B) Look at the following figures, then put $(\sqrt{})$ or (x):





car (2)

1.	The movement of the two cars ca	n be	controlled	from a	distance by	using
	a remote control.					

2. Car (2) use sunlight to move.

3. The two cars can convert the chemical energy stored in their batteries into electrical energy.

4. We can use an electric cable to recharge the battery that is placed in car (1) again if it runs out.

Model Exam 3

1 (A) Choose the correct answer:

 All the following are processes that can change the Earth's surface, except

a. digestion.

b. erosion.

c. weathering.

d. deposition.

2. Electric wires are made of

a. copper.

b. carbon.

c. wood.

d. glass.

3. All the following are forms of fuel, except

a. wood.

b. natural gas. c. gasoline.

d. glass.

4. The Sun provides us with and and

a. sound - heat.

b. light - electricity.

c. sound - light.

d. heat - light.

(B) Give a reason for the following:

The used amount of fossil fuel cannot be replaced as quickly as it is consumed.

2 (A) Correct the underlined words:

 Curiosity is a robotic vehicle that is designed to explore the surface of moon.

2. Hydroelectric energy, is one of non-renewable energy resources.	(
or the state of th	************

small solar panels are used to sup	oply one light bulb with sound energy.
cars depend on fuel as a sour	ce of electrical energy.
(B) What happens if ? You turn on an electric fan.	(according to the change of energy
(A) Choose from column (B) what su	nits it in column (A):

(A)	(B)
Water Wind energy.	a. It needs extreme heat and pressure to be formed from remains of dead plants.
2. Wind energy. 3. Coal.	b. It is the main resource of energy of the Earth's surface
4. The Sun	c. It is gaseous renewable resource of energy.
4, 11.	d. It is a liquid renewable resource of energy.
	e. It is a solid renewable resource of energy.

3. 4.

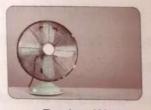
(B) Look at the following figures, then complete the following sentences:



Device (1)



Device (2)



Device (3)



Device (4)

- 1. The electrical energy used to operate devices number
- 2. Kinetic energy is produced in devices and

Model Exam 4

1 (A) Choose the correct answer:

- 1. All the following are renewable energy resources, except
 - a. waterfalls.
- b. coal.
- c. the Sun.
- d. wind.
- 2. Hydroelectric energy is generated from
 - a. waterfalls only.

b. waterfalls and dams.

c. biofuel only.

- d. biofuel and fossil fuel.
- Both hair dryer and electrical water kettle produce energy.
 - a. chemical b. thermal
- c. light
- d. potential

2.

Part -		harned
	onergy to be	recharged
4 Some electric des	vices need energy to be	d. sound
a. electrical	b. thermal	
a. electrical		
(B) Give a reason fo	the lonoving formation of deltas.	
Plants of wetland are	r the following : eas help in formation of deltas.	The state of the s
		ng:
	Fic term of each of the following	our. (
2 (A) Write the scientif	term of the langes into water vapo	our.
4 A process in Willell	1 it is US	60
2 The liquid that store	es chemical energy, and anim	nals and plants
Z. The liquid block	and from remains of dead arm	(
3. A fuel that is produ	ced from remains of dead animurface.	(
under the Earth's s	roduces light from electricity.	
4. It is a device that pi	roduces light from	
18	7	upping out.
(B) What happens II	controlled toy car batteries is r	dilling 5 and
The charge of remote	controlled (c)	***************************************
Sand dunes are the and sandy desert.	ort distance when wind blows	with a great force. (
	Used energy	Produced energy
1.	energy	Light energy and energy

..... energy

..... energy

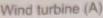
(A) Choose the correct answer :			
(A) Choose the Correct disversion (A) Choose the Choose the Correct disversion (A) Choose the Correct disversion (A) Choose the Choose the Choose the Choose the Choose the Choo	e energy c	hanges into sound energy.	
b. thermal	c. kinetic	d. electrical	
2. Using convergent shee the solar energy.	ts in cooking food i	s one of the benefits of using)
paper b. plastic	c. mirror	d. wooden	
a. Paper 3. River water evaporates by the I	nelp of heat produc	ed from	
a. kettles.	b. the Sun.		
c, electric heaters.	d. electric iron		
Extreme heat and pressure und forming	der the Earth's surf	ace has an important role in	
a. wood. b. wind.	c. fossil fuel.	d. biofuel.	
(B) What happens to ?			
The car fuel indicator if the amount	nt of gasoline in a	car decreases	
***************************************	***************************************		
(A) Put (V) or (X):			
1. Deposition process never char	nge the shape of the	ne land. ()
2. There is a stored chemical end	ergy inside the foo	d we eat. ()
3. Machines make our life more	easier.	()
4. We have to conserve all forms	of fuel.	()
(B) Give a reason for the following	ing:		
Sunlight is very important for pla	nts and animals.		

(A) Complete the following con	4		-
(A) Complete the following sen			
1. When we expose our bodies			
2. The energy can be from			
Sediments are mixed with the layers at the bottom of ocean		and forming	
4. Blowing of strong in t	the desert may for	m large sand dunes.	

(B) If the two wind turbines in front of you are affected by the different wind forces Answer the following questions:

Weak wind







Wind turbine (B)

- 1. Which wind turbine spins faster ? (Give a reason for your answer).
- 2. Which wind turbine generates less electrical energy?

Model Exam 6

1 (A) Choose the correct answer:

- 1. When a river meets a sea or an ocean, a landform known as is formed
 - a. canyon
- b. volcano c. mountain
- d. delta
- 2. Oil is a non-renewable energy resource that is used inside a

- a. flash light. b. car engine. c. electric fan. d. washing machine.
- 3. It takes several for a spacecraft to travel from Earth to Mars.
 - a. seconds
- b. minutes
- c. days d. months
- 4. You feel warm when you rub your hands together, because energy changes into thermal energy.
 - a. kinetic
- b. light
- c. electrical d. sound

(B) What happens if ...?

Sea creatures were buried under the Earth's surface over millions of years.

2 (A) Correct the underlined words:

1. Watermill turbines generate electricity by using the energy of wind movement.

woon is the	main	source	of	energy	on	Earth.	
-------------	------	--------	----	--------	----	--------	--

3. We need sound energy that comes from the Sun, for cooking foods and warming houses.

- 4. Fossil fuel include oil, coal and wood.
- (B) Give a reason for the following:

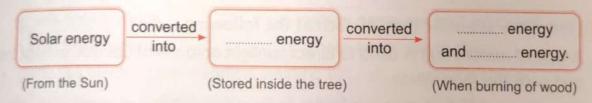
Biofuel is considered as a renewable fuel.

3 (A) Put (V) or (X):

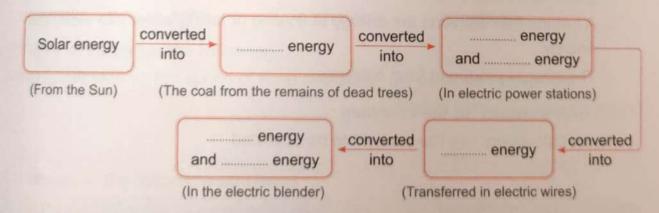
- 1. Both canyons and valleys often have river in their bottom.
 - 2. The walls of valleys are vertical and steep.
 - 3. Deltas are formed as a result of silt deposition.
 - 4. The Nile River pour its water in the Red Sea.
 - (B) Use the following words to complete the energy chains below. (you may use the same word more than once):

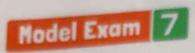
(Thermal - Chemical - Kinetic - Electrical - Sound - Light)

1. The energy chain of burning some branches of a tree :



The energy chain of electric blender.





(A) Choose the correct answer:	and the second by
1. 40 million years ago, Wadi Al-I	Hitan was covered by
2. Sound and energies a	re from output energies when operating the
mobile phone.	c. chemical d. light
a. electrical b. potential	C CHEITHOUT
3. We can use the energy obtaine	od from burning of wood directly in all of the
following situations, except	b. operating television.
a. warming houses.	d. boiling water.
c. cooking food.	d. boiling water
4. When land and water areas on I	Earth absorb the solar energy, the
increases.	b. speed of rotation of Earth
a. temperature on Earth	d. speed of rotation of Sun
c. speed of rotation of moon	d. speed of foldation of Carr
The kinetic energy of wind applied to	to the wind turbines decreases.
The kinetic energy of wind app	
and cook the food inside. 2. It is a form of biofuel, that can be a grass and wood chips. 3. A turbine that converts the energy energy. 4. The energy produced from batteries (B) Give a reason for the following:	made from some types of plants such as of flowing or falling water into electrical (
Some calculators use the sunlight to	be operated.
stations. Put each of the following	electricity is generated in electric power g words in front of its suitable sentence:
1. Its movement produces kinetic ener	3).
It changes kinetic energy into electri	cal energy. (

3. It is a type of nonrenewable resources of energy. 4. It is resulted from heating the water and it turns turbines. (B) Look at the opposite picture, then complete the following sentences. 1. The name of this glass building is 2. The idea of working of this building depends on collecting the energy coming from the Sun. 3. The received energy is converted into energy that warms the inside of this building. 4. In the cold regions, this building allows farmers to plant crops that only grow in climates.	
Model Exam 8	
A) Choose the correct answer: Some kinetic energy is converted into energy due to friction of bike's tire with the road. a. light b. electrical c. potential d. thermal	
Using water to generate electricity depends on places	
c. with weak winds. d. where boats sail in rivers.	
Inside the electric power station, heating of produce steam.	
a. turbines. b. generators. c. water. d. fuel.	
While playing guitar, the energy changes into sound energy.	
a. kinetic. b. light. c. chemical. d. potential.	
Give a reason for the following: then you press on the spring of soap dispenser, the soap moves upward. (according to the change of energy))
complete the following sentences :	
There are two types of weathering which are weathering andweathering.	
Dams control the flow of, that causes the increase of the	

3.	In some villages,	solar panels	are use	d to	generate	 energy that	is user
	to operate	equipment.				 11.00	-00

- 4. Sand dunes are in continuous motion due to the movement of
- (B) What happens if ...?

You turn on the T.V.

(according to the change of energy)

(A) Give one example for each of the following:

- 1. A renewable resource of energy:
- 2. A non-renewable resource of energy:
- 3. A method of conserving fossil fuel:
- 4. A disadvantage of using fossil fuel in energy production :

(B) Look at the following figures, then complete the following energy chain:



Figure (1)



Figure (2)



Figure (3)



Figure (4)



Figure (5)

Energy in figure

converted into

Chemical energy stored in figure

converted into

Thermal energy and kinetic energy in figure

Thermal energy that is produced from the device in figure converted

Electrical energy that is travelled through figure

converted

(A) Choose the correct answer					
The City of	drums is the	energy.			
chemical b. light	C. sound	d. potential			
if the rain falls over a canyon for s	several times per y	ear,			
a its depth increases.	b. its depth decr	eases.			
it becomes flat.		d. it is not be affected.			
3. When the windmill blades rotates generating energy.	, this causes wind	turbines to rotate a	ind		
a. electrical b. solar	c. chemical	d. potential			
4. All the following are forms of foss	il fuel, except	*****			
a. water. b. coal.	c. natural gas.				
(B) What happens if?					
A generator in an electric power sta	tion is damaged.				

		************************************	************		
		The state of the s			
(A) Put (V) or (X):					
1. Energy may be destroyed inside	different devices.		()	
2. Grinding of biscuits by hands into	o fine powder has	the same effect of			
mechanical weathering of rocks.			()	
3. The movement of a generator in	electric power state	tions produces pot	ential		
energy.			()	
4. The amount of oil on Earth is lim	ited.		()	
(B) Write the scientific term of each	h of the following	r:			
1. Process in which rocks are broke	en down into small	ler particles. ()	
2. Process in which small broken re					
of wind or water.					
(A) Complete the following senter	nces :				
1. The origin of sand is the breaking	g down of some ty	pes of			
2. The type of weathering in which			e presen	се	
of plant roots is known as					
				55	

3. The change of electrical energy into sound energy in the radio is an example that proves the law of 4. The natural resources that can be replaced shortly after being used are called resources of energy. (B) Mention the input and output energies of the opposite device: 1. Input energy: 2. Output energy: 2. Output energy: 3. Running bicycle. 4. Running bicycle. 5. Running person. 2. Curiosity rover is designed to explore			Man and the					
4. The natural resources that can be replaced shortly after being used are called resources of energy. (B) Mention the input and output energies of the opposite device: 1. Input energy: 2. Output energy: 1. Which of the following is a renewable energy resources? 2. Running bicycle. 3. Running bicycle. 4. Running water. 5. Running water. 6. Running person. 7. Curiosity rover is designed to explore	3. The change of electrical energy	into sound energy if	the radio is an example					
(B) Mention the input and output energies of the opposite device : 1. Input energy : 2. Output energy : 1. Which of the following is a renewable energy resources ? 2. Running bicycle. 3. Running water. 4. Running person. 2. Curiosity rover is designed to explore 4. Earth planet. 5. Mars planet. 6. the Sun. 7. The change of energy in an is opposite to the change of energy in a wind turbine. 7. a. electric bell b. electric heater c. electric iron d. electric fan 7. All the following factors play an important role in the formation of fossil fuel, except d. 7. Earth planet. 8. Earth planet. 9. Earth planet. 9. Earth planet. 1. The change of energy in an is opposite to the change of energy in a wind turbine. 1. Earth planet. 1. Earth planet. 1. Earth planet. 1. Earth planet. 2. Earth planet. 3. The change of energy in an is opposite to the change of energy in a wind turbine. 1. Earth planet. 2. Earth planet. 3. The change of energy in an is opposite to the change of energy in a wind turbine. 4. All the following factors play an important role in the formation of fossil fuel, except d. 6. Extreme heat. 7. Coal is considered as a nonrenewable energy resource. 1. The matter that produces steam on heating, which is used to turn turbines in electric power station. 2. A mill that is turned by water flow. 3. Process in which the sediments are dropped in a new location by the action of wind, water, ice and gravity.	4 The natural research that are be replaced shortly after being used							
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1. Input energy: 2. Output energy: 2. Output energy: 3. Which of the following is a renewable energy resources? 4. Which of the following is a renewable energy resources? 5. Running bicycle. 6. Running bicycle. 7. Running water. 8. Running person. 9. Curiosity rover is designed to explore		energies of the opp	osite device :					
Nodel Exam (A) Choose the correct answer: 1. Which of the following is a renewable energy resources? a. Running bicycle. b. Running car. c. Running water. d. Running person. 2. Curiosity rover is designed to explore a. Earth planet. b. Mars planet. c. the Sun. d. the moon. 3. The change of energy in an								
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a. Running bicycle. c. Running water. d. Running person. 2. Curiosity rover is designed to explore	(A) Choose the correct answer:		2					
c. Running water. d. Running person. 2. Curiosity rover is designed to explore	1. Which of the following is a renew	able energy resource	ces ?					
2. Curiosity rover is designed to explore	a. raining bioyolo.							
a. Earth planet. b. Mars planet. c. the Sun. d. the moon. 3. The change of energy in an	c. Running water. d. Running person.							
3. The change of energy in an	2. Curiosity rover is designed to exp							
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2. A mill that is turned by water flow. 3. Process in which the sediments are dropped in a new location by the action of wind, water, ice and gravity. (i neating, which is						
Process in which the sediments are dropped in a new location by the action of wind, water, ice and gravity. ((
wind, water, ice and gravity.			(
4. The energy used to play a drum.		dropped in a new	location by the action of					
	4. The energy used to play a drum.		()					

- what	t happens if?		
(B) *****	your hands near the lighted lam	ip.	
You put		******************************	
	a parameter and a parameter an		
	CONTROL OF THE PROPERTY OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TO T	2. On the second	

(A) Correct the underlined words :

- 1. The amount of biofuel that is consumed, cannot be replaced as quickly as it is used.
- 2. Dams are built on rivers in order to generate solar energy.
- 3. The origin of sand is the breaking down of some types of glass. (______)
- 4. Plant roots help in the formation of rocks.

(B) Look at these electric devices, then complete the following sentences:







Device (2)



Device (3)

- Sound and light energies are produced in the device number and help it to do its function.
- 3. Noise from devices number and is wasted energy, because sound doesn't help the devices do their functions.
- 4. All of these devices are operated by energy that is transmitted from stations through wires.

Model Examinations

El-Moasser Final Examination Models

Model Exam 1

- (A) 1. d 2. c 3. d 4. a
 - (B) Minerals of rocks dissolve causing their breaking down.
- (A) 1. (★) 3. (★) 2. (★) 4. (✓)
 - (B) 1. deposition 2. valleys
- (A) 1. Electric bulb.
 - Renewable resources of energy.
 - 3. Wind.
 - Electrical energy.
 - (B) To conserve the electricity.

Model Exam

- 0
- 1 (A) 1. a 2. a 3. d 4. b
 - (B) Due to the reaction between iron and oxygen of air.
- (A) 1. windmills watermills electricity.
 - 2. heat.
 - 3. charcoal oil coal
 - 4. chemical kinetic
 - (B) A canyon is formed.
- (A) 1. increases 2. gentle
 - (B) 1. (✓) 2. (×) 3. (✓) 4. (×)

Model Exam 3

- (A) 1, a 2, a 3, d 4, d (B) Because fossil fuel is formed over millions of years.
- 2. renewable
 3. electrical 4. batteries
 - (B) Electrical energy changes into kinetic energy.
- (A) 1. d 2. c 3. a 4. b (B) 1. (2) – (3) – (4) 2. (3) – (4)

- (A) 1. b 2. b 3. b 4. a
 (B) Because they help in increasing the rate of deposition process.
- (A) 1. Evaporation.
 - 2. Gasoline.
 - 3. Fossil fuel.
 - 4. Electric bulb.
 - (B) We can recharge its batteries by connecting toy car to a nearby charger or replacing old batteries with new ones.
- 3 (A) 1. (✓) 2. (✓) 3. (✗) 4. (✗)
 - (B) 1. Solar thermal2. Kinetic Electrical

- (A) 1. c 2. c 3. b 4. c
 - (B) We have to stop at the nearest gas station to fill the tank of the car.
- (A) 1. (★) 2. (✓) 3. (✓) 4. (✓)
 - (B) Because without sunlight plants will die, and then the animals that eat them will die also.
- (A) 1. warm. 2. changed 3. plants – animals 4. wind
 - (B) 1. (B), because it is affected by strong wind.2. (A)

Model Exam

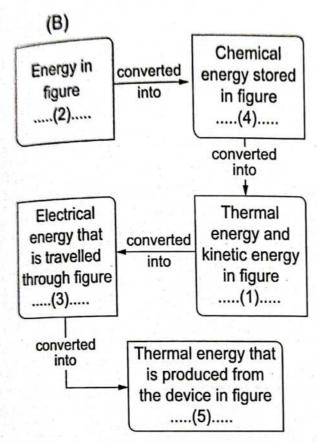
- (A) 1. d 2. b 3. d 4. a (B) Oil and natural gas are formed.
- (A) 1. water flow. 2. Sun 3. solar 4. natural gas.
 - (B) Because it can be replaced shortly after it is used.
- 3 (A) 1. (✓) 2. (×) 3. (✓) 4. (×)
 - (B) 1. Chemical Thermal light
 2. Chemical Thermal –
 Kinetic Electric Kinetic
 Sound

Model Exam

- (B) The amount of produced electricity will decrease.
- (A) 1. Concave mirrors.
 - 2. Liquid fuel.
 - 3. Water turbine.
 - 4. Electrical energy.
 - (B) Because sunlight is converted into electrical energy which calculators use it to be operated.
- 3. Coal 2. Generator 4. Steam
 - (B) 1. greenhouse. 2. radiant 3. thermal 4. warm

- (A) 1. d 2. b 3. c 4. a
 - (B) Because the potential energy stored in the spring changes into kinetic energy that moves the soap upward.
- (A) 1. mechanical chemical
 - 2. water potential
 - electrical irrigation
 - 4. wind.
 - (B) The electrical energy is converted into sound energy and light energy.

- (A) 1. The Sun.
- 2. Coal.
- Walking or biking instead of driving a car.
- 4. Air pollution.



- 1 (A) 1. c 2. a
- 3. a
- 4. a
- (B) It will not produce electrical energy.
- 2 (A) 1. (×)
- 2. (🗸)
- 3. (*)
- 4. (1)
- (B) 1. Weathering
- 2. Erosion
- 3 (A) 1. rocks.
- 2. mechanical
- 3. conservation of energy.
- 4. renewable

- (B) 1. Electrical energy.
 - 2. Thermal energy.

- 1 (A) 1. c
- 2. b
- 3. d
- 4. c
- (B) Because it is used at a rate faster than it can be renewed.
- (A) 1. Water.
- 2. Watermill
- 3. Deposition.
- 4. Kinetic energy.
- (B) You feel warm, because some electrical energy is converted into thermal energy.
- (A) 1. fossil fuel
- 2. electrical
- 3. rocks
- 4. decomposition
- (B) 1. (2)
- 2.(1)-(3)
- 3.(1)-(3)
- electrical electric power